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(74) Agent: PHILLIPS ORMONDE & FITZPATRICK; 367  
Collins Street, Melbourne, Victoria 3000 (AU).

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(71) Applicant (*for all designated States except US*): ADE-  
LAIDE RESEARCH & INNOVATION PTY LTD  
[AU/AU]; Level 11, 10 Pulteney Street, Adelaide, South  
Australia 5005 (AU).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): HUSSEY, Nicole,  
Dominique [AU/AU]; 35 Northern Avenue, West Beach,  
South Australia 5024 (AU). HU, Dong, Gui [CN/AU]; Unit  
one, Number one, Rofe Court, Woodville Park, South Aus-  
tralia 5011 (AU).

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(54) Title: COMPARATIVE GENOMIC HYBRIDIZATION

(57) Abstract: The present invention relates to a method of comparing at least one chromosome or part thereof from a cell with a first karyotype with the corresponding chromosome or part thereof from a cell with a second karyotype. The method includes the steps of: (a) amplifying DNA from an isolated chromosome or part of an isolated chromosome; (b) attaching the amplified DNA to a solid substrate; (c) amplifying DNA from one or more cells with a first karyotype and amplifying DNA from one or more cells with a second karyotype; (d) labelling the amplified DNA from the one or more cells with a first karyotype with a first label, and labelling the amplified DNA from the one or more cells with a second karyotype with a second label, wherein the first and second labels are detectably different; (e) hybridizing the amplified and labelled DNA from the one or more cells with a first karyotype to the amplified DNA attached to the solid substrate, and hybridizing the amplified and labelled DNA from the one or more cells with a second karyotype to the amplified DNA attached to the solid substrate; and (f) comparing the relative amount of first and second labels hybridized to the amplified DNA attached to the solid substrate.

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